ARM® DS-5 Development Studio

Complete suite of professional tools for embedded C/C++ software development on ARM-based targets

Nobody knows ARM debug better than ARM! DS-5 provides comprehensive support for software development, and SoC design and bring-up. The suite includes a full range of professional tools enabling you to quickly and easily exploit the full power of your ARM-based design:

The DS-5 Debugger provides class-leading support for ARM cores and ARM debug & trace IP whether you need bare-metal debug, Linux kernel and driver development, or RTOS support. A debugger architecture that was designed from the start to be flexible combined with an advanced scripting infrastructure enables easy and rapid support of the most complex targets and CoreSight topologies, fast implementation of custom debugger functionality, and support of non-ARM debug and trace IP.

Streamline performance analyser enables you to get the best out of your system's resources and create high performance, energy efficient products. It brings together system performance metrics, software tracing, statistical profiling and power measurement to identify code hotspots, system bottlenecks and other unintended effects of your code or the system architecture.

The ARM C/C++ Compiler is the global reference for support of ARM cores and is trusted throughout the World for the most demanding compilation needs. The ARM compiler produces accurate, predictable code with excellent size and performance characteristics.

The Eclipse IDE is globally used and trusted, and is familiar to software engineers everywhere. By integrating with Eclipse, DS-5 presents impressive ease of use in an instantly accessible IDE. Ds-5 functionality can also be extended using Eclipse plug-ins.

Selected ARM Fixed Virtual Platforms are included with the DS-5 suite, making it easy to start developing and debugging your code before you have access to your target hardware. **The DS-5 Snapshot Viewer** provides offline debug and trace support for when it's not possible to have a JTAG debugger connected to your target: for crash-dump analysis for example.

DS-5 – Edition	Ultimate	Professional
Eclipse IDE	✓	✓
ARM processors up to ARMv7	✓	✓
ARMv8 processors	✓	
Compiler Safety Package	✓	
Debugger:		
Linux gdbserver	✓	✓
Linux Application rewind	✓	✓
Bare metal, RTOS, Linux kernel	✓	✓
Non-invasive trace	✓	✓
Streamline Performance Analyser:		
Performance counters	✓	✓
Multicore analysis	✓	✓
External energy data	✓	✓
3rd party RTOS awareness	✓	✓
Order Code - **node-locked**		
Perpetual, DSTREAM bundle		BUNDS-KT-3PE00
Perpetual		DS5PE-KD-30000
Term	DS5UE-KD-30001	DS5UE-KD-30001
Order Code –**Flex-LM-floating**		
Perpetual, DSTREAM bundle		BUNDS-KT-4PE00
Perpetual		DS5PE-KD-40000
Term	DS5UE-KD-40001	DS5UE-KD-40001

The DS-5 suite includes a wide array of example projects and code to get you started quickly, from core start-up code to Linux application & module development, multi-threaded and secure code. The debugger includes pre-built support for a large number of popular development platforms and includes the most functional and advanced bring-up tool of any ARM debugger: enabling you to fully exploit the debug and trace capabilities of your own ARM-based design. The DS-5 suite is supported by ARM's extensive world-wide network of highly trained and experienced debug professionals.

DS-5 debugger integrates seamlessly with DSTREAM, our advanced JTAG debug and trace unit offering 4GB of internal trace storage with excellent debug performance and functionality. Other connection methods such as the Keil ULINKpro-D or CMSIS-DAP over USB, may be appropriate depending on your debug and performance needs.

DS-5 Professional Edition is perfect for most development needs using mass-market ARM cores. DS-5 Ultimate Edition also provides support for leading-edge ARM cores, including support for lead partners developing with future cores which are not yet public. DS-5 Ultimate Edition also included the Compiler Safety Package, which is **TÜV Certified** and fulfils the requirements for Development tools classified T3 according to IEC 61508-3.

Related Products

- ARM DSTREAM
- Keil/ARM ULINKpro-D

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